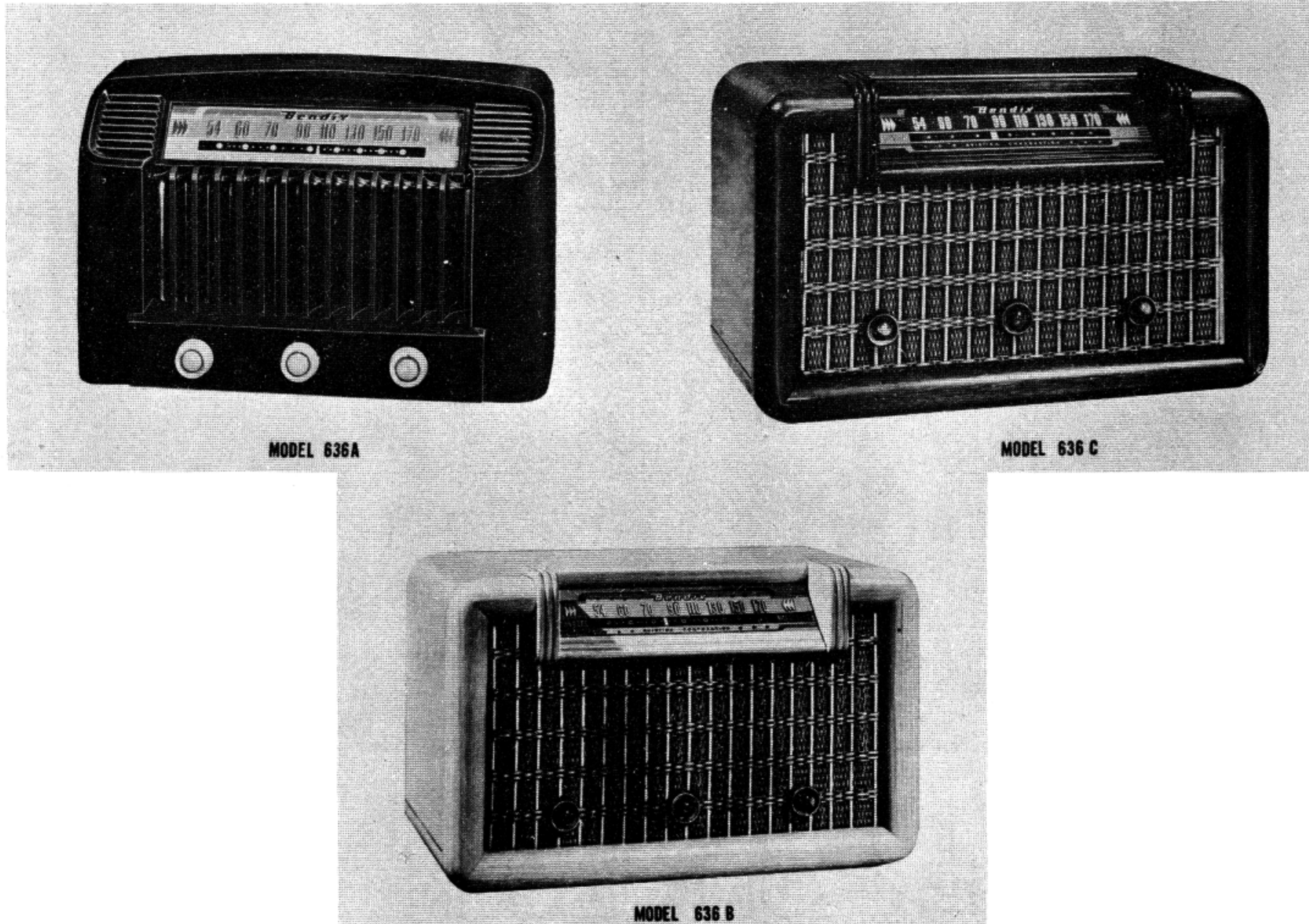


BENDIX
MODELS 636 SERIES (A, B, C)



BENDIX
MODELS 636 SERIES (A, B, C)

BENDIX MODEL 636A

TRADE NAME Bendix, Model 636 Series (A, C, B) MANUFACTURER Bendix Radio, Div. of Bendix Aviation Corp., Baltimore, Md. TYPE SET AC-DC Operated Superheterodyne-With Loop Antenna & Phonograph Provisions TUBES (SIX) Types, 14A7 RF Amp., 14Q7 Converter, 14A7 IF Amp., 14B6 Det.-AVC-AF, 35A5 Power Output, 35Y4 Rectifier.						
POWER SUPPLY 105-125 Volts AC-DC TUNING RANGE—BROADCAST 535-1725KC RATING .240 Amps. @ 117 Volts AC						
ALIGNMENT INSTRUCTIONS—READ CAREFULLY BEFORE ATTEMPTING ALIGNMENT To set pointer, turn tuning cap fully closed and set pointer 2-3/16" from left end of dial back-plate. Use isolation transformer if available. If not, connect a capacitor in series with low side of signal generator and B-. Volume control should be at maximum. Output of signal generator should be no higher than necessary to obtain an output reading. Use an insulated alignment screwdriver for adjusting.						
DUMMY ANTENNA	SIGNAL GENERATOR COUPLING	SIGNAL GENERATOR FREQUENCY	RADIO DIAL SETTING	OUTPUT METER	ADJUST	REMARKS
.1 MFD.	High side to ext. ant. lead. Low side to chassis.	455KC	Tuning cap open.	Across voice coil	A1,A2, A3,A4.	Adjust for maximum output. If isolation transformer is not used, reduce dummy antenna to .001 MFD to reduce hum modulation.
50MMFD.	"	1475KC	6-3/4" from left end of dial back-plate.	"	A5	Adjust for maximum output.
50MMFD.	"	"	Tune for maximum output.	"	A6,A7.	" " " "

HOWARD W. SAMS & CO., INC.

Indianapolis, Indiana

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PARTS LIST AND DESCRIPTIONS
TUBES

BENDIX
636 SERIES (A,C,B)

CHASSIS—TOP VIEW

ITEM No.	USE	REPLACEMENT DATA		INSTALLATION NOTES
		BENDIX PART No.	STANDARD REPLACEMENT	
1	RF Amp.	14A7	14A7	
2	Converter	14Q7	14Q7	
3	IF Amp.	14A7	14A7	
4	Det.-AVC-AF	14B6	14B6	
5	Power Output	35A5	35A5	
6	Rectifier	35Y4	35Y4	

CAPACITORS

Capacity values given in the rating column are in mfd. for Electrolytic and Paper Capacitors, and in mmfd. for Mica and Ceramic Capacitors.

ITEM No.	RATING	REPLACEMENT DATA					IDENTIFICATION CODES AND INSTALLATION NOTES
		BENDIX PART No.	SPRAGUE PART No.	AEROVOX PART No.	CORNELL-DUBILIER PART No.	MALLORY PART No.	SOLAR PART No.
7A	40	CE3A00	EL-340#	AF844D#	JP8CJ44#	FP306	DY-604020-150
B	20		UT-201				
C	150			PRS150-40#	BR2015	TC50	
8	150			484-05	DT4S5	TP426	S-4-05
9	.05			484-02	DT4S2	TP423	S-4-02
10	.02			484-01	DT4P1	TP428	S-4-01
11	.1			484-04	DT4S4	TP425	S-6-04
12	.04			484-01	DT4S1	TP421	S-4-01
13	.01			484-06	DT6D6	TP409	S-6-006
14	.006			484-05	DT4S5	TP426	S-4-05
15	.006			484-06	DT6D6	TP409	S-6-006
16	.1			484-01	DT4P1	TP428	S-4-01
17	.05			484-05	DT4S5	TP426	S-4-05
18	.05			484-05	DT4S5	TP426	S-4-05
19	.004			684-004	DT6D4	TP407	S-6-006
20	220			1FM-32	MS-42	MC237	M0.5-322
21	22			1FM-45	MS-45	MC220	M0.5-422
22	47			1FM-45	MS-45	MC225	M0.5-447
23	47			1FM-45	MS-45	MC225	M0.5-447
24	3.3			CG9A16			M0.5-447

*Not used on all models.

†May be .15 MFD. on some models.

‡May be .05 MFD. on some models.

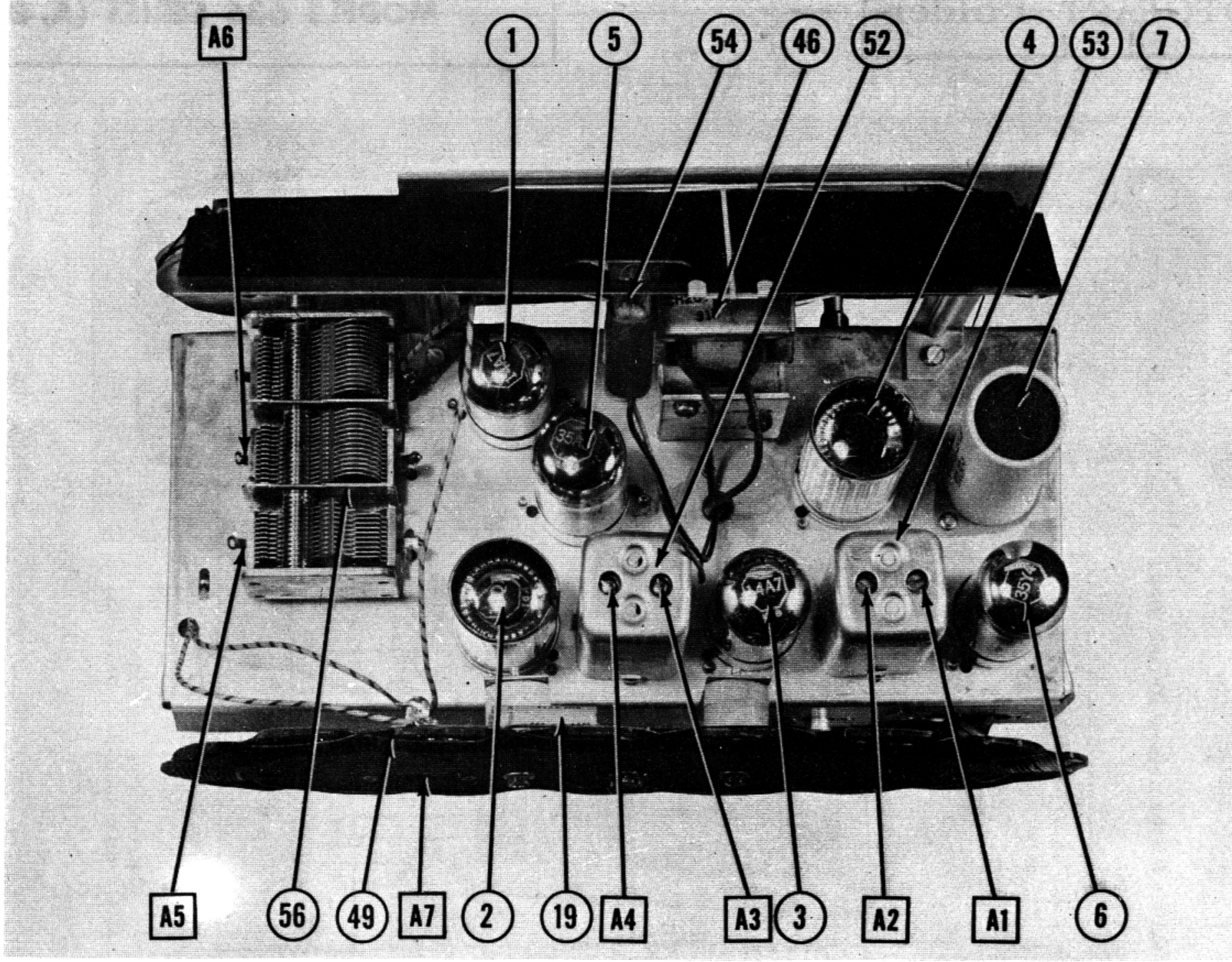
#Parallel sections for desired capacity.

CONTROLS

ITEM No.	RATING	REPLACEMENT DATA				INSTALLATION NOTES
		BENDIX PART No.	MALLORY PART No.	IRC PART No.	CLAROSTAT PART No.	
25A	1 Meg.		MR53	D13-137	M-63-Z	Volume Control—Later production Attach to 25A per instructions
B Shaft			Not Req.	A	Not Req.	
C Switch			M26	41	SW-A	
25A	1 Meg.		TM234	D17-137X	T-101	Volume Control—Early productions Attach to 25A per instructions
B Shaft			Not Req.	A	Not Req.	
C Switch			M26	41	SW-A	

RESISTORS

ITEM No.	RATING	REPLACEMENT DATA			IDENTIFICATION CODES
		BENDIX PART No.	IRC PART No.		
26	220Ω	RC1H16	BW-2-220		Red-Red-Br. RF Cathode
27	22KΩ	RC1H40	BTS-22K		Red-Red-Or. Oscillator Gr1d
28	3.3 Meg.	RC1H68	BTS-3.3 Meg.		Or.-Or.-Grn. AVC Network
29	470Ω	RC1H20	BTS-470		Yl.-Yl.-Br. IF Plate Decoupling
30	220KΩ	RC1H54	BTS-220K		Red-Red-Yl. Line Isolation
31	470KΩ	RC1H58	BTS-470K		Yl.-Yl.-Yl. Diode Load
32	22KΩ	RC1H40	BTS-22K		Red-Red-Or. Tone Compensation—See Note 1
33	100KΩ	RC1H51	BTS-100K		Br.-Blk.-Yl.
34	15KΩ	RC1H38	BTS-15K		Br.-Grn.-Or.
35	6800Ω	RC1H34	BTS-6800		Blue-Gray-Red
36	1000Ω		BTS-1000		Br.-Blk.-Red



PARTS LIST AND DESCRIPTIONS (Continued)

RESISTORS

ITEM No.	RATING		REPLACEMENT DATA		IDENTIFICATION CODES	
	RESISTANCE	WATTS	BENDIX PART No.	IRC PART No.	"	"
37	2200Ω	1/4	RC1H70	BTS-2200	Red-Red-Red	"
38	4.7 Meg.	1/4	RC1H54	BTS-4.7 Meg.	Yl.-Vl.-Grn.	AF Grid
39	220KΩ	1/4	RC1H58	BTS-220K	Red-Red-Yl.	AF Plate Load
40	470KΩ	1/4	RW1B14	BTS-470K	Yl.-Vl.-Yl.	Output Grid
41	150Ω	1	RC1H32	BM-1-150	Br.-Grn.-Br.	Output Cathode
42	2200Ω	2	RC4G28	BT-2-2200	Red-Red-Red	Filter
43	4700Ω	1/4	RC1H32	BTS-4700	Yl.-Vl.-Red	"
44	33Ω	1/4	RW1A06	BW-1-33	Or.-Or.-Blk.	Surge Limiter
45	100Ω	1	RW1A06	BW-1-100	Br.-Blk.-Br.	Pilot Light Shunt

Note 1 - Used in early production only.
Note 2 - Used in later production only.

TRANSFORMER (OUTPUT)

ITEM No.	RATING		REPLACEMENT DATA		INSTALLATION NOTES
	IMPEDANCE	DC RES.	BENDIX PART No.	THORDAR'N PART No.	
46	2300Ω	3.1Ω	TA0001	A-3876 \$	\$Bend mounting tabs down, file out slots and mount on original bracket.

SPEAKER

ITEM No.	RATINGS		REPLACEMENT DATA		INSTALLATION NOTES
	FIELD	VC IMP.	BENDIX PART No.	JENSEN PART No.	
47	PM	3.1Ω	SP4000		
48A	CONE DIA.	VC DIA.	CS4000		Code 252
B	4"x6"	1/2"	CS4001		Code 328 Alternate Cone
C			CS4002		Code 270
D			CS4006		Code 191
E			CS4007		Code 371

R F COILS

ITEM No.	USE	DC RES.		REPLACEMENT DATA	
		PRI.	SEC.	BENDIX PART No.	MEISSNER PART No.
49	Loop Ant.	.3Ω	.5Ω	AL0003	14-1027
50	RF Coil	57Ω	5.5Ω	TR6L00	14-1040
51	Osc. Coil	.5Ω	4Ω	LO6B00	16-6658
52	Input IF	21Ω	21Ω	T10C01	16-6670
53	Output IF	21Ω		T10D01	

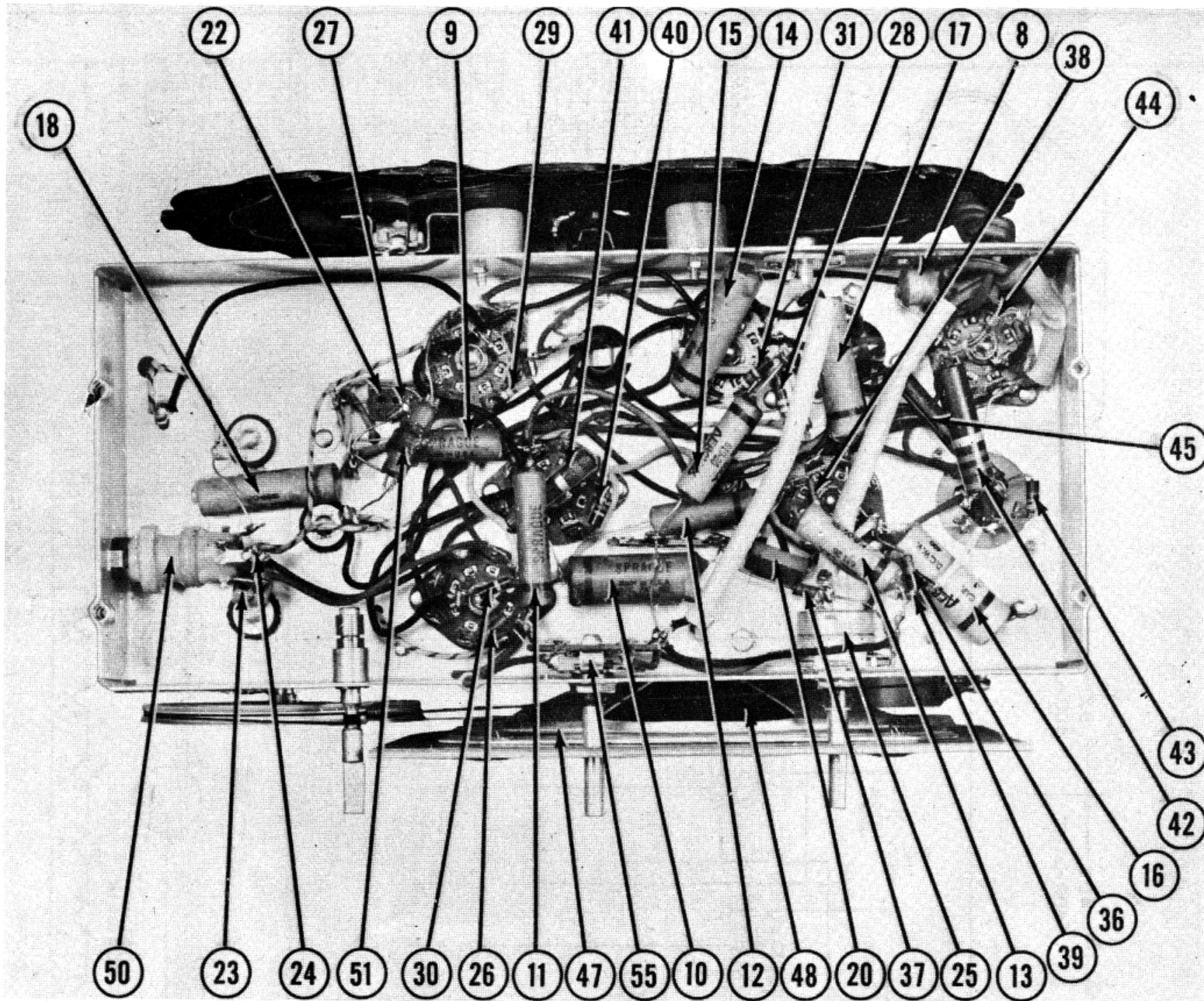
DIAL LIGHT

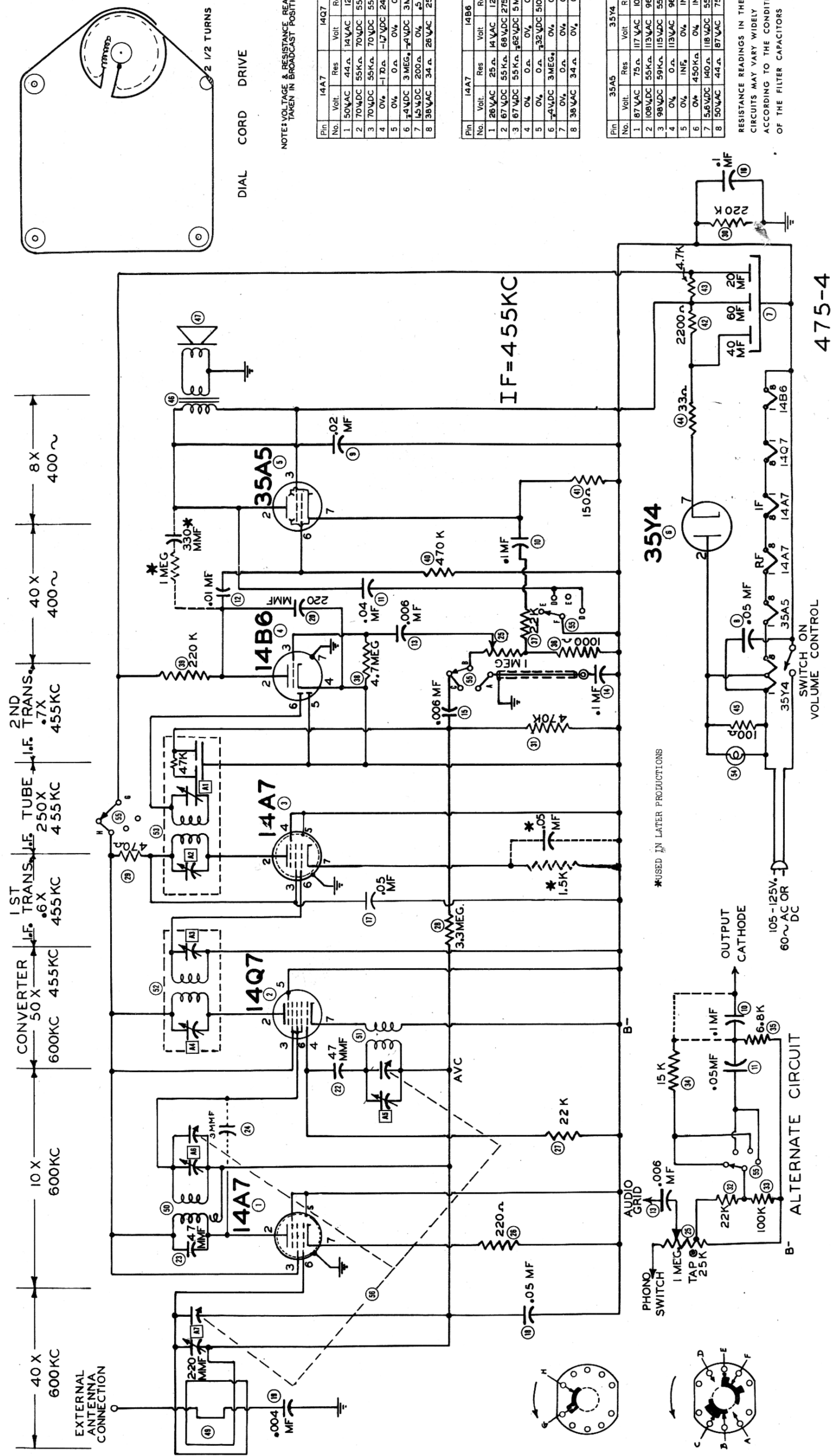
ITEM No.	BASE TYPE	VOLTS	AMPS.	REPLACEMENT DATA		INSTALLATION NOTES
				BEAD COLOR	BENDIX PART No.	
54	Bayonet	6-8	0.15	Brown		Type 47

MISCELLANEOUS

ITEM No.	PART NAME	BENDIX PART No.	NOTES
55	Switch	SR4C00	Radio-Phono (3 Pole-4 Position)
56	3-Gang Var. Cap.	CV0C00	(27-467 MMF, 27-467 MMF, 31-213 MMF)
	Dial Glass	DS0A01	
	Dial Pointer	ID0M02	

CHASSIS—BOTTOM VIEW





NOTE: VOLTAGE & RESISTANCE READINGS TAKEN IN BROADCAST POSITION.

Pin	No.	14A7	Res.	14Q7	Res.
1	50VAC	44 Ω	14VAC	12 Ω	
2	70VDC	55K Ω	70VDC	55K Ω	
3	70VDC	55K Ω	70VDC	55K Ω	
4	0V	-170 Ω	-17VDC	24K Ω	
5	0V	0 Ω	0V	0 Ω	
6	4VDC	3MEG Ω	4VDC	3MEG Ω	
7	15VDC	200 Ω	0V	5 Ω	
8	38VAC	34 Ω	28VAC	25 Ω	

Pin	No.	14A7	Res.	14B6	Res.
1	26VAC	25 Ω	14VAC	12 Ω	
2	67VDC	55K Ω	68VDC	275K Ω	
3	67VDC	55K Ω	68VDC	275K Ω	
4	0V	0 Ω	0V	0 Ω	
5	0V	0 Ω	32VDC	510K Ω	
6	4VDC	3MEG Ω	0V	0 Ω	
7	0V	0 Ω	0V	0 Ω	
8	38VAC	34 Ω	0V	0 Ω	

Pin	No.	35A5	Res.	35Y4	Res.
1	87VAC	75 Ω	117VAC	100 Ω	
2	108VDC	55K Ω	113VDC	96 Ω	
3	98VDC	59K Ω	115VDC	55K Ω	
4	0V	0 Ω	113VAC	96 Ω	
5	0V	INF Ω	0V	INF Ω	
6	0V	450K Ω	0V	INF Ω	
7	5.6VDC	140 Ω	118VDC	55K Ω	
8	50VAC	44 Ω	87VAC	75 Ω	

RESISTANCE READINGS IN THE B+ CIRCUITS MAY VARY WIDELY ACCORDING TO THE CONDITION OF THE FILTER CAPACITORS

The stage gain measured values listed above are approximate values for an average operative stage, rather than an absolute value. It should be borne in mind that it is possible to introduce so many variables into the measurement operation, such as, type of equipment used for measuring, handling and placement of probes, the accuracy of alignment, etc., that an absolute reading is impractical. AVC is made inoperative and 3-volt battery bias substituted for measurement.

1. DC Voltage measurements are at 20,000 ohms per volt; AC Voltages measured at 1,000 ohms per volt.
2. Socket connections are shown as bottom views.
3. Measured values are from socket pin to common negative.
4. Line voltage maintained at 117 volts for voltage readings.
5. Nominal tolerance on component values makes possible a variation of $\pm 10\%$ in voltage and resistance readings.
6. Volume control at maximum, no signal applied for voltage measurements.

THE COOPERATION OF THE MANUFACTURER OF THIS RECEIVER MAKES IT POSSIBLE TO BRING YOU THIS SERVICE

475-4

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